

## **PRODUCTION DATA REPORT**

Project 1108-13

Supplementary Report Twenty-three

to

**FOURDRINIER KRAFT BOARD INSTITUTE, INC.**

August 1, 1958

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the second quarter of 1958:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation, Division of Crown Zellerbach Corporation

Georgia Kraft Company

International Paper Company

North Carolina Pulp Co. & Kieckhefer Container Co.

Olin Mathieson Chemical Corp., Forest Products Division

Owens-Illinois Glass Company, Mill Division

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag-Camp Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters. The total production data for the second quarter of 1958 are given in Table I together with, for purposes of comparison, the total quarterly production data for 1955, 1956, 1957, and the first quarter of 1958. The total production data by quarters from 1955 to the present are illustrated graphically in Figure 1.

Production data for the major grades are shown in Table II on a quarterly basis for 1957 and the first and second quarter of 1958. Production data for all grades are given in Table III for 1957 and 1958 to date on a quarterly basis. In addition, percentage production by grades is given in Table IV for 1957 and 1958 to date. These percentage figures are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The current tonnage data for the major grades---namely, 26 lb., 33 lb., 38 lb., 42 lb., 47 lb., 69 lb., 90 lb., and miscellaneous---are illustrated graphically in Figures 2 through 9, respectively, together with the production for the previous quarters. Also shown in Figures 2 through 9 is the percentage of total production which each grade represents.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Figure 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are numerous comparisons which may be of interest, some of which are the following:

1. The total production of all grades for the second quarter of 1958 (see Table I) was the lowest total reported since the first quarter of 1953.
2. The tonnages of the major grades are shown on a quarterly basis for 1957 and 1958 to date in Table II where it may be noted that, compared with the production of the corresponding grades during the first quarter of 1958, the second quarter production of the following grades increased: 26 lb., 33 lb., and miscellaneous, whereas production of the following grades decreased: 38 lb., 42 lb., 47 lb., 69 lb., and 90 lb.

TABLE I

TOTAL TONNAGE OF ALL GRADES

	1955	1956	1957	1958
1st Quarter	886,487	972,607	932,706	836,013
2nd Quarter	945,631	995,265	946,959	793,764
3rd Quarter	965,247	959,662	924,262	
4th Quarter	959,008	952,295	914,979	
	<hr/>	<hr/>	<hr/>	<hr/>
Total	3,756,373	3,879,829	3,718,906	

TABLE II

TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1957 AND 1958

Grade	<u>1957</u>			
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
26 lb.	90,748	83,616	65,968	67,656
33 lb.	56,452	55,636	53,369	57,990
38 lb.	73,283	82,907	86,731	86,745
42 lb.	414,657	416,928	418,698	417,787
47 lb.	22,150	27,665	26,670	21,386
69 lb.	107,473	115,538	117,382	115,902
90 lb.	61,268	54,779	57,479	52,896
Misc.	78,240	81,138	74,027	73,976
<u>1958</u>				
26 lb.	41,837	48,393		
33 lb.	49,694	52,791		
38 lb.	90,207	82,493		
42 lb.	363,902	322,583		
47 lb.	20,870	18,322		
69 lb.	116,063	101,638		
90 lb.	50,325	41,145		
Misc.	78,244	95,493		

TABLE III

TOTAL TONNAGE BY GRADES

Grade	1957				1958			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
26 lb.	90,748	83,616	65,968	67,656	41,837	48,393		
28 lb.	2,085	2,622	1,626	937	518	706		
30 lb.	1,426	791	1,525	1,267	7,171	1,462		
32 lb.	556	1,289	689	885	--	1,166		
33 lb.	56,452	55,636	53,369	57,990	49,694	52,791		
35 lb.	41	--	15	--	--	--		
36 lb.	418	55	--	344	47	--		
38 lb.	73,283	82,907	86,731	86,745	90,207	82,493		
42 lb.	414,657	416,928	418,698	417,787	363,902	322,583		
45 lb.	19,023	19,760	14,749	11,505	14,546	14,622		
46 lb.	--	--	184	--	--	--		
47 lb.	22,150	27,665	26,670	21,386	20,870	18,322		
50 lb.	1,371	471	411	--	394	750		
51 lb.	124	--	--	50	--	--		
52 lb.	624	601	1,002	490	759	355		

TABLE III--Continued  
TOTAL TONNAGE BY GRADES

Grade	1957				1958			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
60 lb.	625	424	111	--	199	87		
62 lb.	--	--	37	--	--	10,162		
64 lb.	387	656	1,926	4,556	1,182	1,496		
65 lb.	1,232	1,154	413	277	--	30		
67 lb.	--	613	--	--	--	--		
69 lb.	107,473	115,538	117,382	115,902	116,068	101,638		
72 lb.	328	--	--	--	--	--		
75 lb.	--	114	975	--	--	70		
76 lb.	195	202	194	215	--	--		
85 lb.	--	--	81	115	--	--		
90 lb.	61,268	54,779	57,479	52,896	50,325	41,145		
Misc.	78,240	81,138	74,027	73,976	78,244	95,493		



TABLE IV  
TOTAL TONNAGE BY GRADES, PER CENT

Grade	1957				1958			
	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>
26 lb.	9.7	8.8	7.1	7.4	5.0	6.1		
	10.6	9.7		8.0	5.5	6.9		
28 lb.	0.2	0.3	0.2	0.1	0.1	0.1	0.1	
	0.2	0.3	0.2	0.1	0.1	0.1	0.1	
30 lb.	0.2	0.1	0.2	0.1	0.9	0.2	0.2	
	0.2	0.1	0.2	0.2	0.9	0.2	0.2	
32 lb.	0.1	0.1	0.1	0.1	--	0.1	0.2	
	0.1	0.1	0.1	0.1	--	0.1	0.2	
33 lb.	6.1	5.9	5.8	6.3	5.9	6.6	6.7	7.6
	6.6	6.4	6.3	6.9	5.9	6.6	6.7	7.6
35 lb.	c	--	c	--	--	--	--	--
	c	--	c	--	--	--	--	--
36 lb.	c	c	--	c	c	c	--	--
	c	c	--	c	c	c	--	--
38 lb.	7.9	8.8	9.4	9.5	10.8	10.4	11.8	
	8.6	9.6	10.2	10.3	11.9	10.4	11.8	
42 lb.	44.5	44.0	45.3	45.7	43.5	40.6	46.2	
	40.5	48.2	49.2	49.7	48.0	40.6	46.2	

TABLE IV--Continued

Grade	1957				1958			
	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>
45 lb.	2.0	2.2	2.3	1.7	1.7	1.8	2.1	
46 lb.	--	--	--	--	--	--	--	
47 lb.	2.4	2.6	3.2	2.3	2.5	2.5	2.6	
50 lb.	0.1	0.2	0.1	--	c	0.1	0.1	
51 lb.	c	c	--	c	--	--	--	
52 lb.	0.1	0.1	0.1	0.1	0.1	c	0.1	
60 lb.	0.1	0.1	c	--	c	c	c	
62 lb.	--	--	--	--	--	1.3	1.5	

TABLE IV--Continued

TOTAL TONNAGE BY GRADES, PER CENT

Grade	1957				1958			
	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>
64 lb.	c	0.1	0.1	0.5	0.1	0.2	0.2	
65 lb.	0.1	0.1	c	c	--	c	c	
67 lb.	--	0.1	--	--	--	--	--	
69 lb.	11.5	12.2	12.7	12.7	13.9	12.8	14.6	
72 lb.	c	--	--	--	--	--	--	
75 lb.	--	c	0.1	--	--	c	c	
76 lb.	c	c	c	c	--	--	--	
85 lb.	--	--	c	c	--	--	--	
90 lb.	6.6	5.8	6.3	5.8	6.0	5.2	5.9	
misc.	8.4	8.6	8.0	8.1	9.4	12.0		

<sup>a</sup> Percentage based on the total production of all grades including miscellaneous.  
<sup>b</sup> Percentage based on the total production of all grades excluding miscellaneous.  
<sup>c</sup> Less than one-tenth of one per cent after being rounded off.

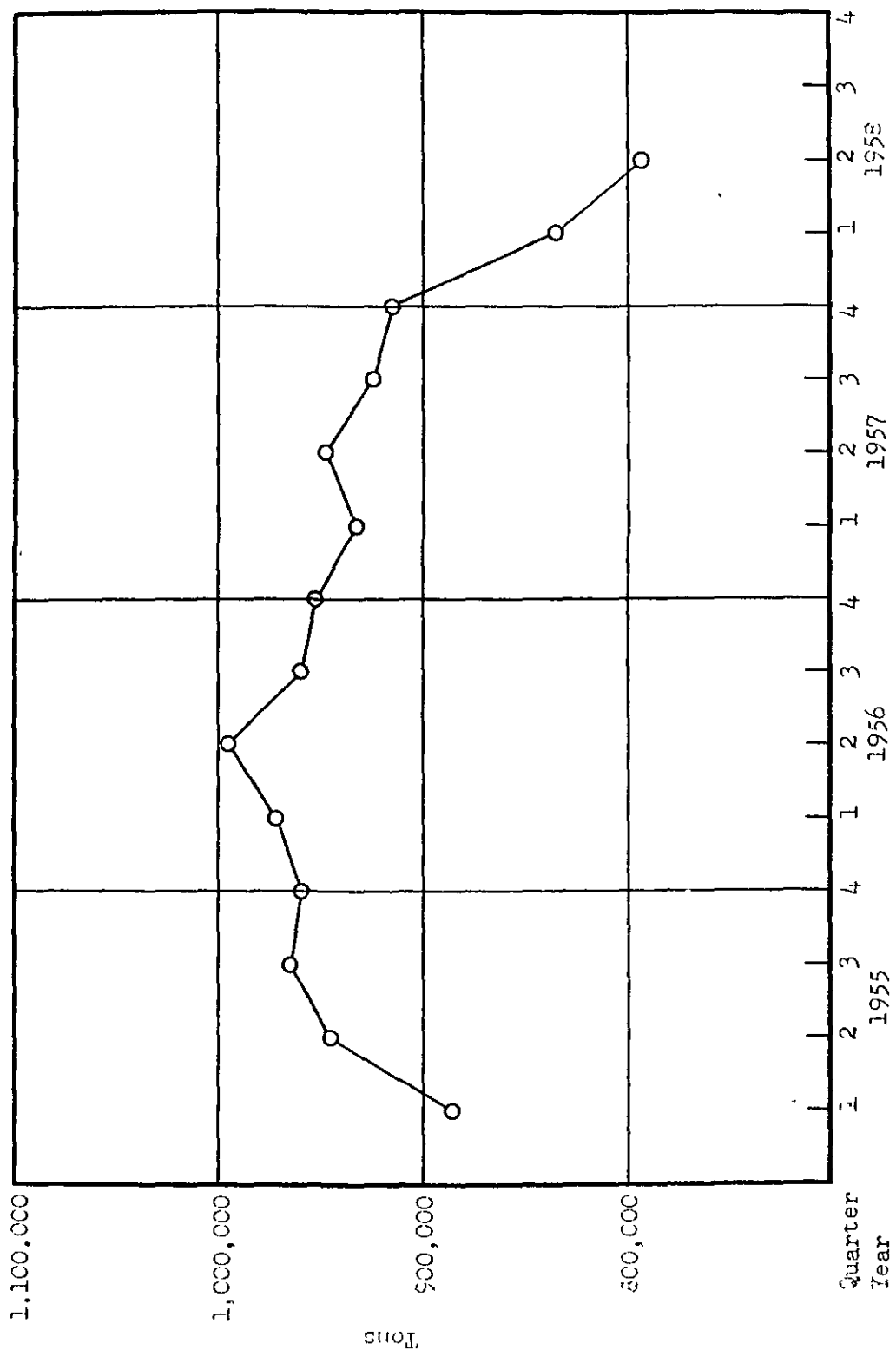


Figure 1. Paper Board Production of All Grades

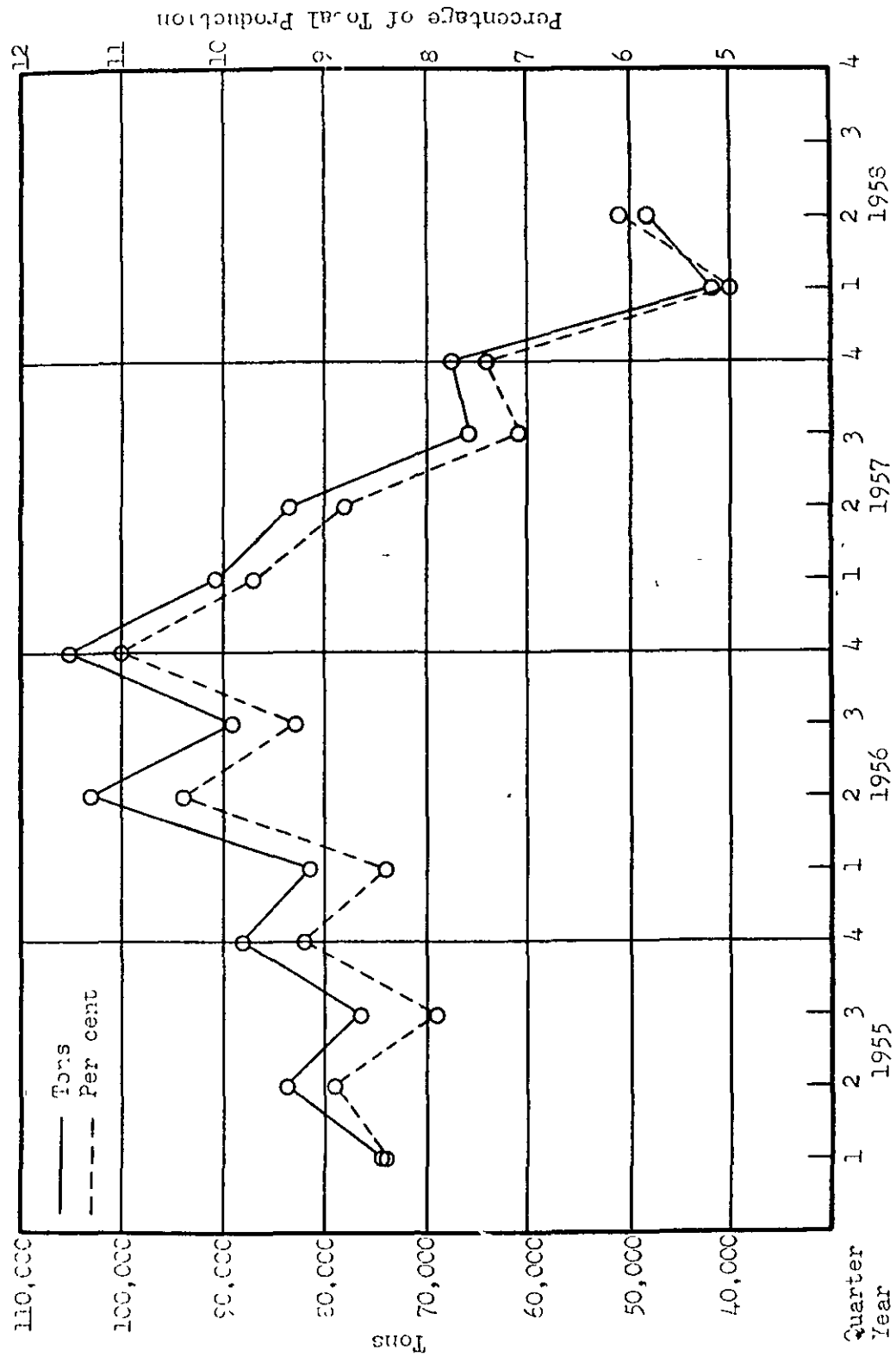


Figure 2. Production, 26-10.

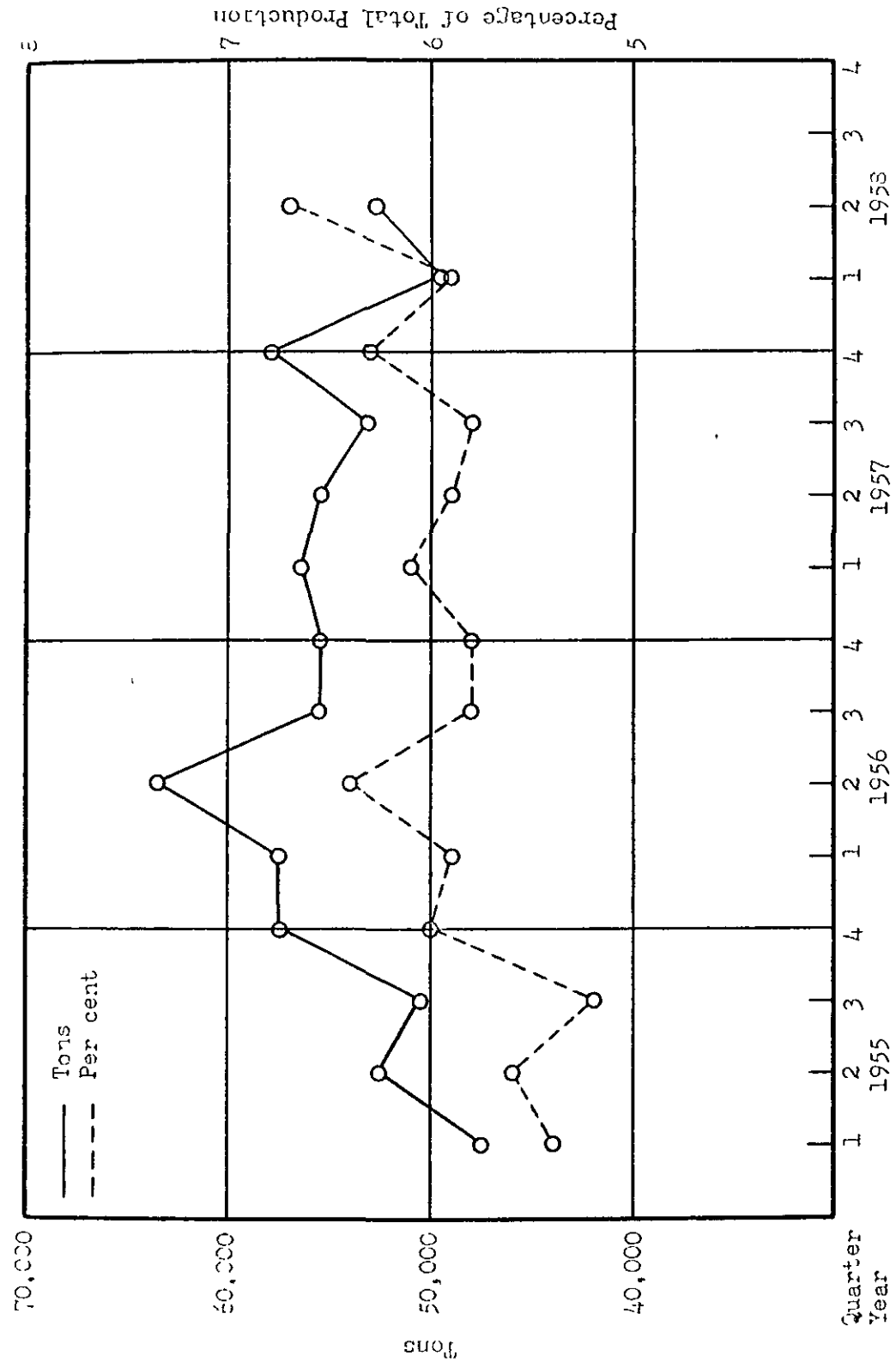


Figure 3. Production, 33-lb.

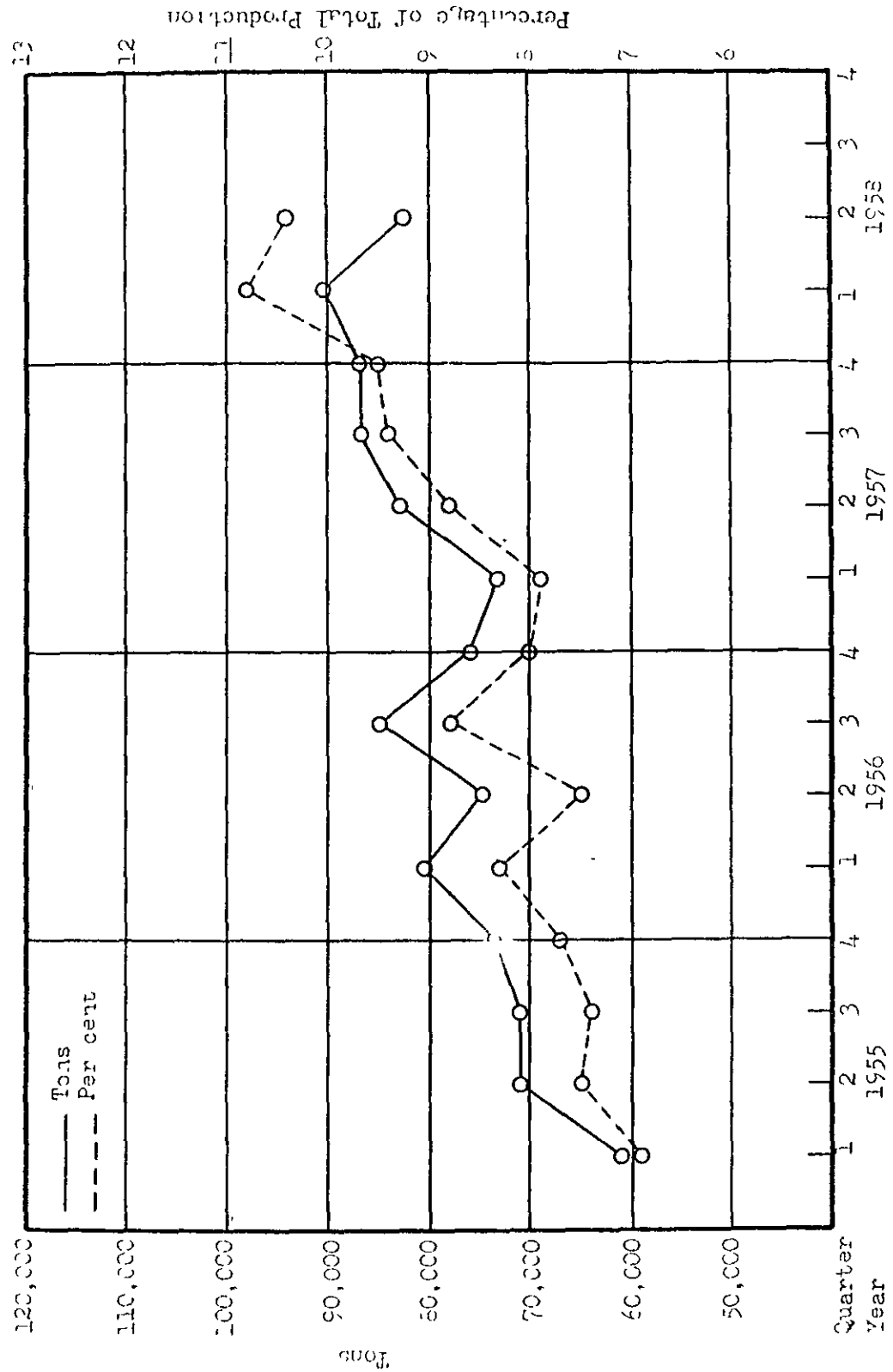


Figure 4. Production, 38-lb.

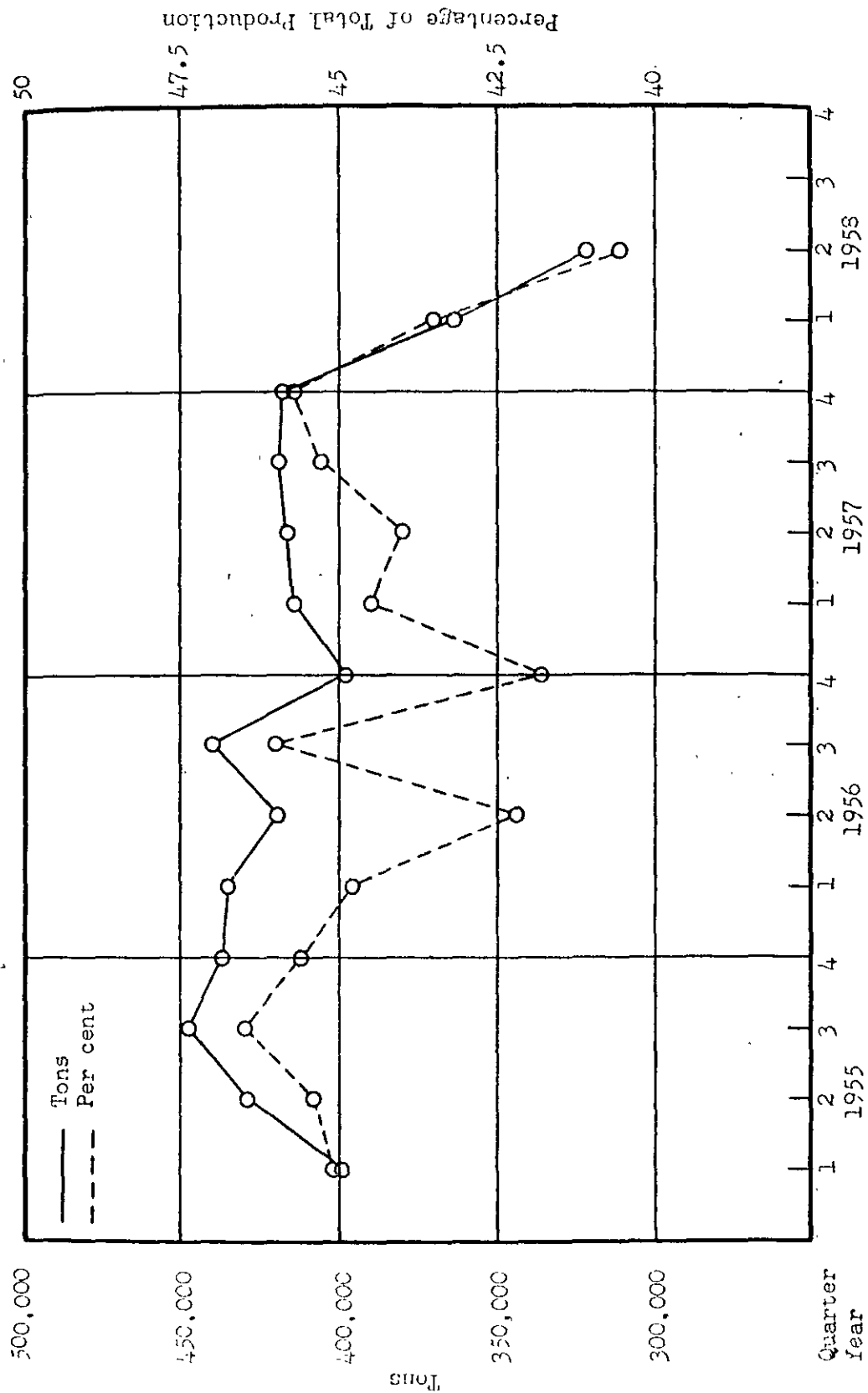


Figure 5. Production, 42-lb.



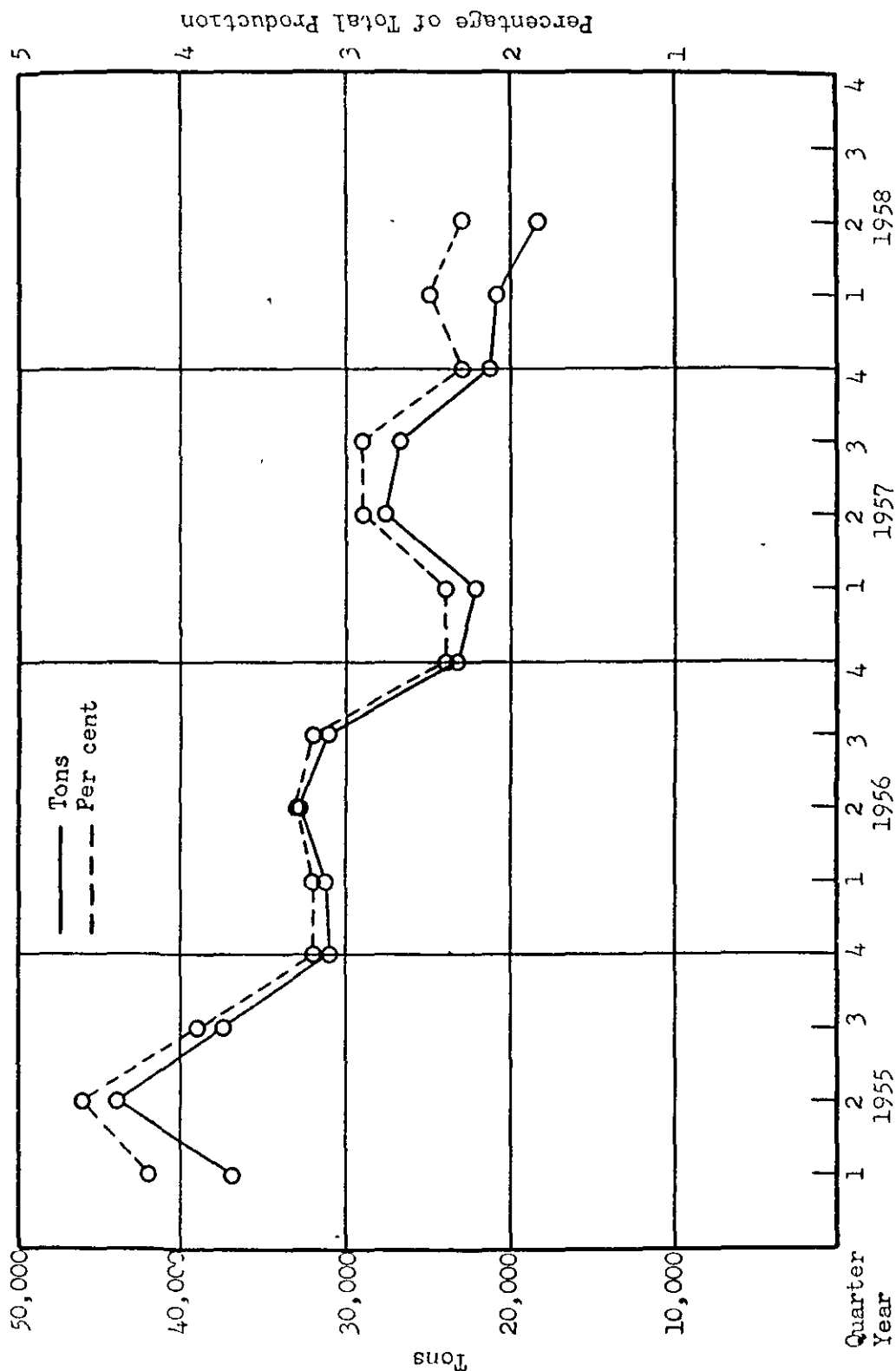


Figure 6. Production, 47-lb.

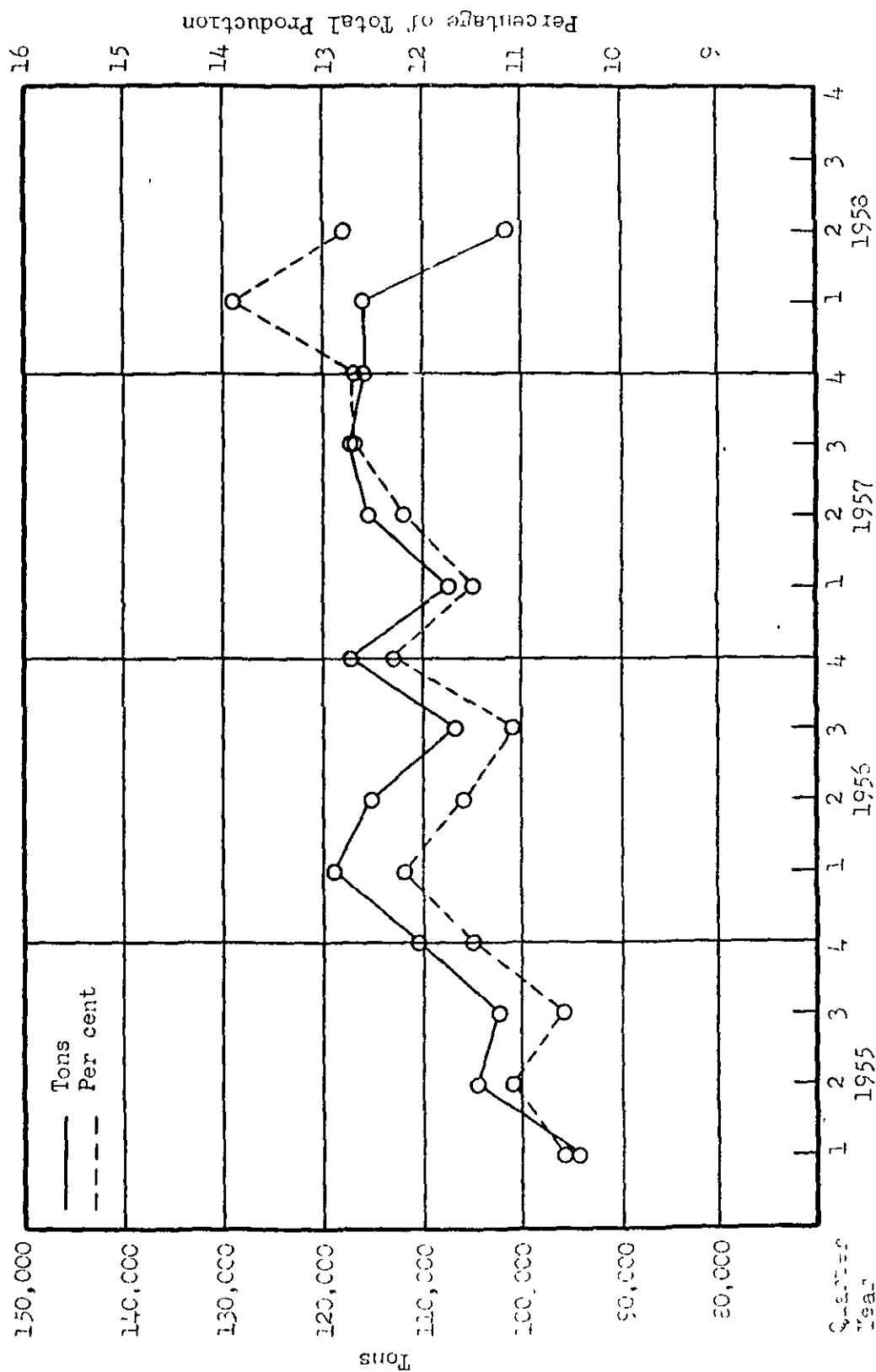


Figure 7. Production, 69-lb.

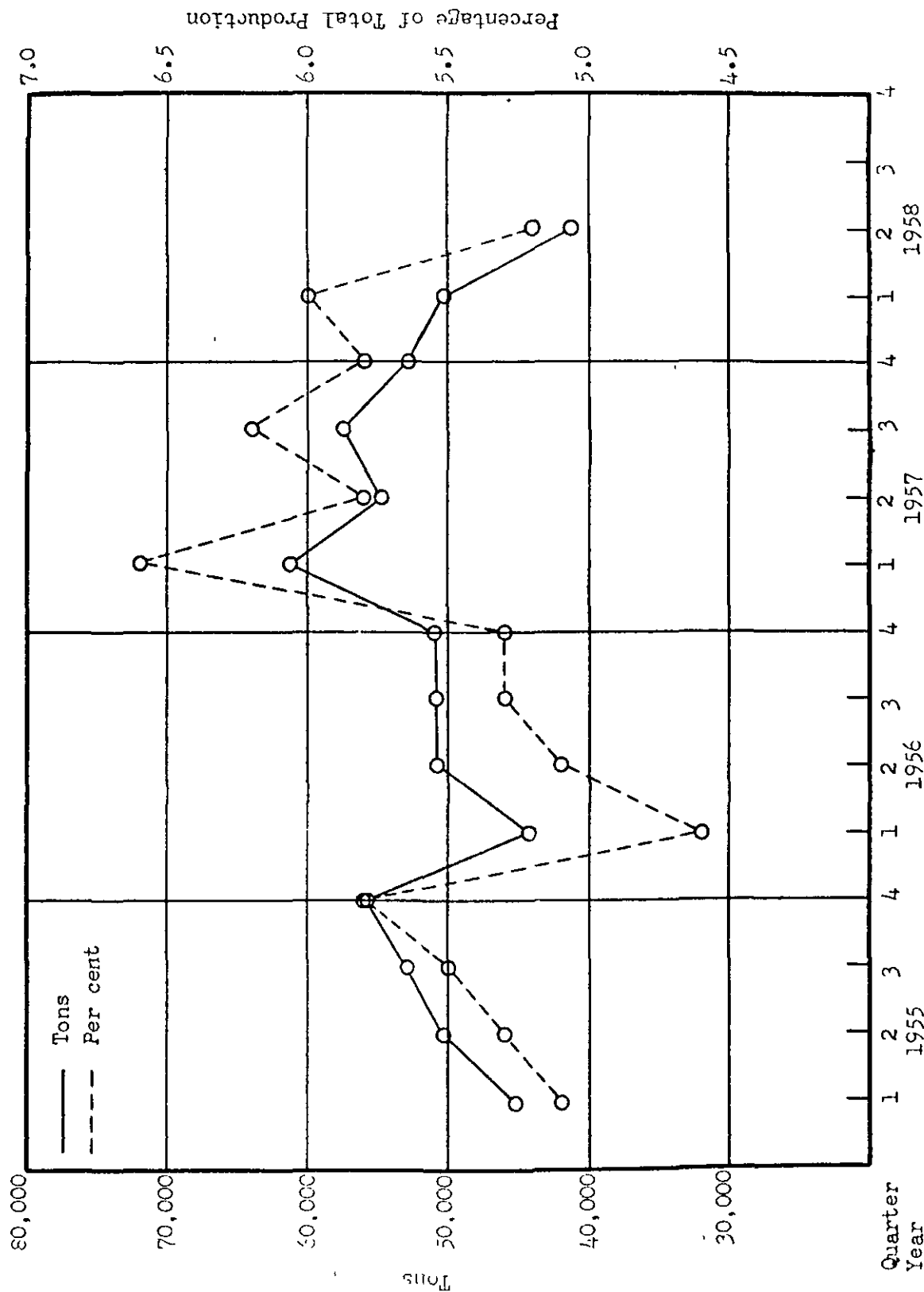


Figure 8. Production, 90-lb.

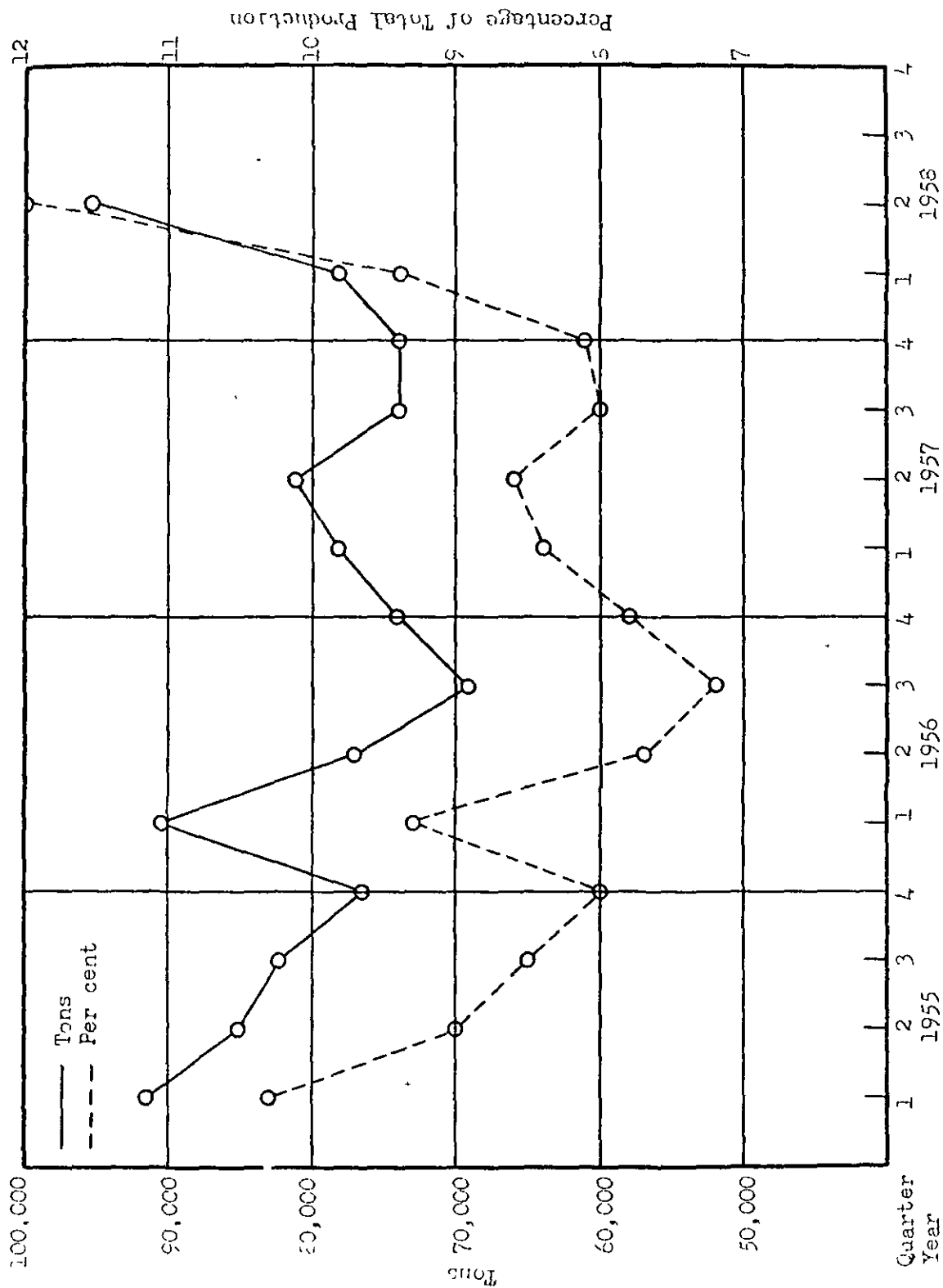


Figure 9. Production, Miscellaneous

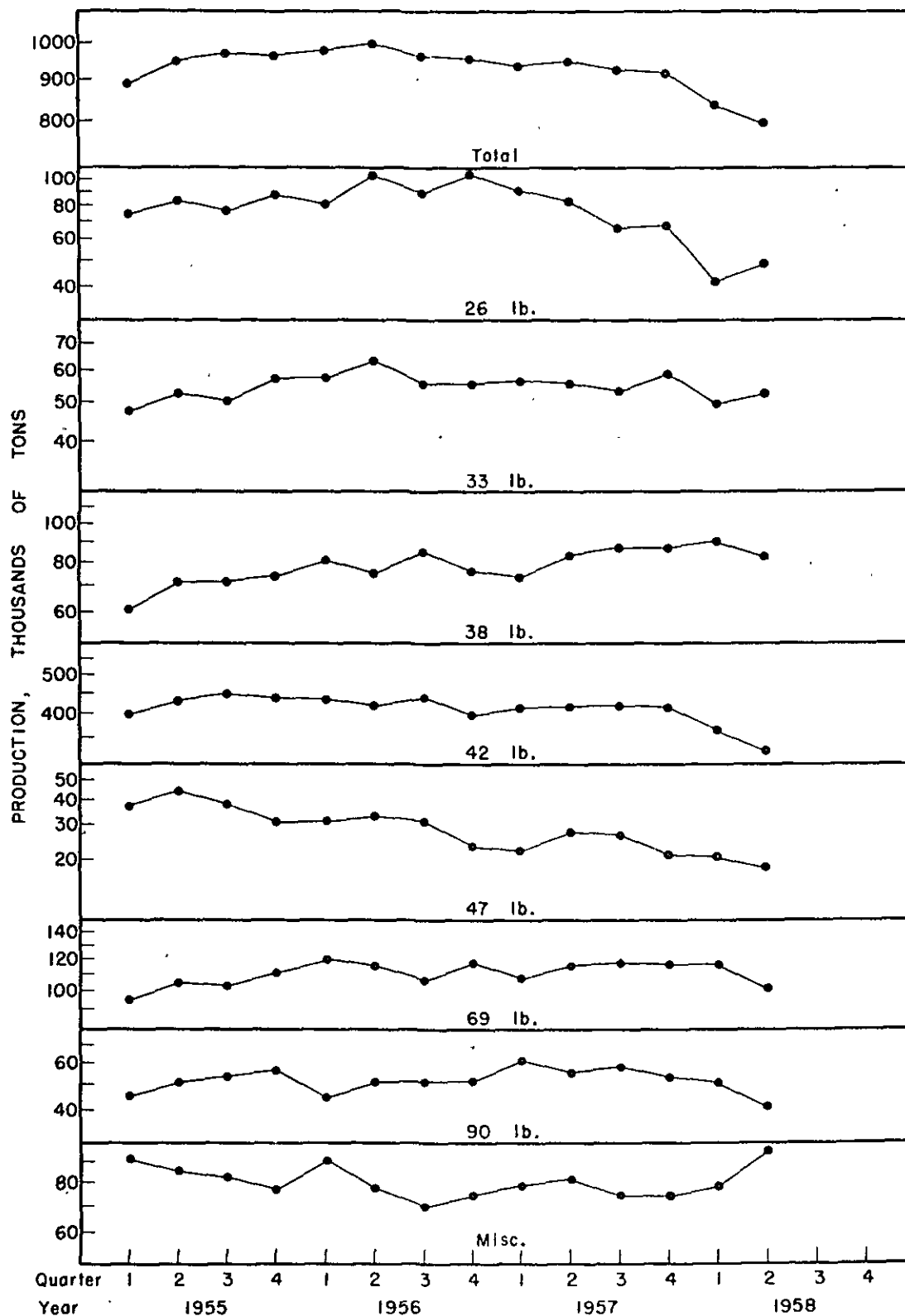


Figure 10. Comparison of Percentage Changes in Production for All Grades.